

REMARKS

35 USC §112

The Examiner rejects claims 1-7 and 18 under 35 USC 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The Applicant respectfully disagrees.

Claim 1 recites:

“A layered thermal component, comprising:

at least one thermal interface component, wherein the thermal interface component comprises at least one rubber-resin modified paraffin polymer wax system and at least one thermally conductive filler material; and

at least one heat spreader component coupled to the thermal interface component.”

Page 12 of the original specification states:

“Paraffin-based phase change materials, however, have several drawbacks. On their own, they can be very fragile and difficult to handle. They also tend to squeeze out of a gap from the device in which they are applied during thermal cycling, very much like grease. The rubber-resin modified paraffin polymer wax system described herein avoids these problems and provides significantly improved ease of handling, is capable of being produced in flexible tape or solid layer form, and does not pump out or exude under pressure. Although the rubber-resin-wax mixtures may have the same or nearly the same temperature, their melt viscosity is much higher and they do not migrate easily. Moreover, the rubber-wax-resin mixture can be designed to be self-crosslinking, which ensures elimination of the pump-out problem in certain applications. Examples of contemplated

Honeywell Docket No. H0004275.68586 US - 4018
Buchalter Docket No.: H9925-3405

phase change materials are malenized paraffin wax, polyethylene-maleic anhydride wax, and polypropylene-maleic anhydride wax. The rubber-resin-wax mixtures will functionally form at a temperature between about 50 to 150°C to form a crosslinked rubber-resin network."

The rubber -resin modified paraffin polymer wax system is specifically mentioned and described as a "rubber-wax-resin" mixture that may be designed to be self-crosslinking. The examples of contemplated phase change materials are specifically called out in this paragraph. The Applicants are unsure of how this paragraph could more clearly describe the wax system, especially in combination with the remaining portion of the specification.

The Applicants respectfully request that the Examiner review the claims, along with the specification, again and contact the undersigned Attorney-of-Record to discuss by phone, if there are any remaining issues with this application that would not allow it to proceed to allowance.

Honeywell Docket No. H0004275.68586 US - 4018
Buchalter Docket No.: H9925-3405

REQUEST FOR A TELECONFERENCE

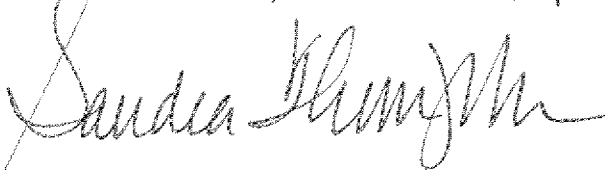
The undersigned Attorney-of-Record requests a teleconference to discuss this case, if the current amendments do not place it in condition for allowance. Dr. Thompson is available generally Monday-Thursday from 8AM to 6PM PDT and can be reached at 949-224-6282.

REQUEST FOR ALLOWANCE

Claims 1-7, 18 and 21 are pending in this application, and the Applicant respectfully requests that the Examiner reconsider all of the claims in light of the arguments presented and allow all current and pending claims.

Respectfully submitted,

Buchalter Nemer, A Professional Corp.



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